

# RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

| Application Serial Number: | 09/068.3770 |
|----------------------------|-------------|
| Source:                    | 1/4/04~     |
| Date Processed by STIC:    | 1/4/04~     |
|                            |             |

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,

2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 703-308-4212; FAX: 703-308-4221 Effective 12/13/03: TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE <u>CHECKER VERSION 4.1 PROGRAM</u>, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

http://www.uspto.gov/web/offices/pac/checker/chkr41note.htm

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail. Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom. Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

- 1. EFS-Bio (<a href="http://www.uspto.gov/ebc/efs/downloads/documents.htm">http://www.uspto.gov/ebc/efs/downloads/documents.htm</a>, EFS Submission User Manual ePAVE)
- 2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
- Hand Carry directly to (EFFECTIVE 12/01/03):
   U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
- Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 10/08/03

### Raw Sequence Listing Error Summary

| ERROF      | RDETECTED                           | SUGGESTED CORRECTION SERIAL NUMBER: 09/068,3770  |
|------------|-------------------------------------|--|
| ATTN:      | NEW RULES CASES                     | : PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE  |
| 1          | _Wrapped Nucleics<br>Wrapped Aminos | The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."   |
| 2          | _Invalid Line Length                | The rules require that a line not exceed 72 characters in length. This includes white spaces.  |
| 3          | _Misaligned Amino<br>Numbering      | The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.  |
| . 4        | _Non-ASCII                          | The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.   |
| 5          | ुष्य<br>Variable Length             | Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.   |
| 6          | _Patentin 2.0<br>"bug"              | A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences. |
| 7          | _Skipped Sequences<br>(OLD RULES)   | Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence:  (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)  (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  This sequence is intentionally skipped                                |
|            |                                     | Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.  |
| 8          | _Skipped Sequences<br>(NEW RULES)   | Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence. <210> sequence id number <400> sequence id number 000  |
| 9          | Use of n's or Xaa's<br>(NEW RULES)  | Use of n's and/or Xaa's have been detected in the Sequence Listing.  Per 1.823 of Sequence Rules, use of <220>-223> is MANDATORY if n's or Xaa's are present.  In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.  |
| 10         | _Invalid <213><br>Response          | Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence  |
| 11 <u></u> | _Use of <220>                       | Sequence(s) 27 missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.  (See "Federal Register," 00701/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)                                    |
| 12         | PatentIn 2.0 "bug"                  | Please do not use "Copy to Disk" function of Patentln version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.  |
| 13         | Misuse of n/Xaa                     | "n" can only represent a single nucleotide; "Xaa" can only represent a single amino acid   |



1600

RAW SEQUENCE LISTING DATE: 01/04/2004 PATENT APPLICATION: US/09/068,377D TIME: 13:06:58

Input Set : A:\P1066P2.txt

Output Set: N:\CRF4\01042004\I068377D.raw

```
6 <110> APPLICANT: Lasky, Laurence A.
         Dowbenko, Donald J.
 9 <120> TITLE OF INVENTION: Tyrosine Phosphorylated Cleavage Furrow-Associated
10
         Proteins (PSTPIPs)
12 <130> FILE REFERENCE: P1066P2
                                                               Does Not Comply
14 <140> CURRENT APPLICATION NUMBER: US 09/068,377D
                                                          Corrected Diskette Needed
15 <141> CURRENT FILING DATE: 1998-05-08
17 <150> PRIOR APPLICATION NUMBER: PCT/US98/01774
                                                        pr 6-7
18 <151> PRIOR FILING DATE: 1998-01-30
20 <150> PRIOR APPLICATION NUMBER: US 08/938,830
21 <151> PRIOR FILING DATE: 1997-09-29
23 <150> PRIOR APPLICATION NUMBER: US 08/798,419
24 <151> PRIOR FILING DATE: 1997-02-07
26 <160> NUMBER OF SEQ ID NOS: 76
28 <210> SEO ID NO: 1
29 <211> LENGTH: 415
30 <212> TYPE: PRT
31 <213> ORGANISM: Mus Musculus
33 <400> SEQUENCE: 1
   Met Met Ala Gln Leu Gln Phe Arg Asp Ala Phe Trp Cys Arg Asp
35
                                          10
37
    Phe Thr Ala His Thr Gly Tyr Glu Val Leu Leu Gln Arg Leu Leu
38
                                          25
40
   Asp Gly Arg Lys Met Cys Lys Asp Val Glu Glu Leu Leu Arg Gln
41
                     35
                                          40
43
   Arg Ala Gln Ala Glu Glu Arg Tyr Gly Lys Glu Leu Val Gln Ile
44
                     50
                                          55
46
   Ala Arg Lys Ala Gly Gly Gln Thr Glu Met Asn Ser Leu Arg Thr
47
                     65
                                          70
49
   Ser Phe Asp Ser Leu Lys Gln Gln Thr Glu Asn Val Gly Ser Ala
50
                                          85
52 His Ile Gln Leu Ala Leu Ala Leu Arg Glu Glu Leu Arg Ser Leu
53
                     95
                                         100
                                                             105
55
   Glu Glu Phe Arg Glu Arg Gln Lys Glu Gln Arg Lys Lys Tyr Glu
56
                    110
                                         115
                                                             120
58
   Ala Ile Met Asp Arg Val Gln Lys Ser Lys Leu Ser Leu Tyr Lys
59
                    125
                                         130
                                                             135
61
   Lys Thr Met Glu Ser Lys Lys Ala Tyr Asp Gln Lys Cys Arg Asp
62
                    140
                                         145
64
   Ala Asp Asp Ala Glu Gln Ala Phe Glu Arg Val Ser Ala Asn Gly
65
                    155
                                        160
67
   His Gln Lys Gln Val Glu Lys Ser Gln Asn Lys Ala Lys Gln Cys
68
```

175

180

170

RAW SEQUENCE LISTING DATE: 01/04/2004 PATENT APPLICATION: US/09/068,377D TIME: 13:06:58

Input Set : A:\P1066P2.txt

Output Set: N:\CRF4\01042004\I068377D.raw

```
Lys Glu Ser Ala Thr Glu Ala Glu Arg Val Tyr Arg Gln Asn Ile
70
71
                    185
                                         190
73
    Glu Gln Leu Glu Arg Ala Arg Thr Glu Trp Glu Gln Glu His Arg
74
                    200
                                         205
76
    Thr Thr Cys Glu Ala Phe Gln Leu Gln Glu Phe Asp Arg Leu Thr
77
                                                              225
                    215
                                         220
79
    Ile Leu Arg Asn Ala Leu Trp Val His Cys Asn Gln Leu Ser Met
80
                    230
                                         235
                                                              240
82
    Gln Cys Val Lys Asp Asp Glu Leu Tyr Glu Glu Val Arg Leu Thr
83
                    245
                                         250
                                                              255
85
    Leu Glu Gly Cys Asp Val Glu Gly Asp Ile Asn Gly Phe Ile Gln
86
                    260
                                         265
                                                              270
88
    Ser Lys Ser Thr Gly Arg Glu Pro Pro Ala Pro Val Pro Tyr Gln
89
                                         280
                                                              285
91
    Asn Tyr Tyr Asp Arg Glu Val Thr Pro Leu Ile Gly Ser Pro Ser
92
                                                              300
                    290
                                         295
94
    Ile Gln Pro Ser Cys Gly Val Ile Lys Arg Phe Ser Gly Leu Leu
95
                    305
                                         310
97
    His Gly Ser Pro Lys Thr Thr Pro Ser Ala Pro Ala Ala Ser Thr
98
                                                              330
                    320
                                         325
100
    Glu Thr Leu Thr Pro Thr Pro Glu Arg Asn Glu Leu Val Tyr Ala
101
                     335
                                          340
103
     Ser Ile Glu Val Gln Ala Thr Gln Gly Asn Leu Asn Ser Ser Ala
104
                                          355
                     350
106
     Gln Asp Tyr Arq Ala Leu Tyr Asp Tyr Thr Ala Gln Asn Ser Asp
107
                                          370
                     365
109
     Glu Leu Asp Ile Ser Ala Gly Asp Ile Leu Ala Val Ile Leu Glu
110
                                          385
                     380
     Gly Glu Asp Gly Trp Trp Thr Val Glu Arg Asn Gly Gln Arg Gly
112
113
                                                               405
115
     Phe Val Pro Gly Ser Tyr Leu Glu Lys Leu
116
                     410
118 <210> SEQ ID NO: 2
119 <211> LENGTH: 2100
120 <212> TYPE: DNA
121 <213> ORGANISM: Mus Musculus
123 <400> SEQUENCE: 2
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126
     agaagaagcg gaaggtctcg agcggcgcca attttaatca aagtgggaat 100
    attgctgata gctcattgtc cttcactttc actaacagta gcaacggtcc 150
    gaacctcata acaactcaaa caaattctca agcgctttca caaccaattg 200
    cctcctctaa cgttcatgat aacttcatga ataatgaaat cacggctagt 250
     aaaattgatg atggtaataa ttcaaaacca ctgtcacctg gttggacgga 300
134
    ccaaactgcg tataacgcgt ttggaatcac tacagggatg tttaatacca 350
136
     ctacaatgga tgatgtatat aactatctat tcgatgatga agatacccca 400
138
140
    ccaaacccaa aaaaagaggg tgggtcgacc cacgcgtccg gctccttcct 450
    ,catttcgctg ctgattctag ccccaaacaa aacaggttga gcctttttcc 500
142
    tecteeggea gttgeetetg gettgtgget geettetgag egttteagae 550
    ggcgccggct gggagtggga gggagggcct gggctagccg cgctgggact 600
```

### RAW SEQUENCE LISTING DATE: 01/04/2004 PATENT APPLICATION: US/09/068,377D TIME: 13:06:58

Input Set : A:\P1066P2.txt

Output Set: N:\CRF4\01042004\I068377D.raw

```
148
    gggacgtgct cctggctcct ggcccatgct cagccctgct tgaagcagga 650
150
    gtgctagcat ttgacacaac gcccttggag gatgatggcc cagctgcagt 700
152
    teegagatge ettetggtge agggaettea eggeecacae agggtatgag 750
154
    gtgctactgc agaggctgct ggacggcagg aagatgtgca aggatgtgqa 800
156
    ggagetgete agacagaggg cecaggegga ggagaggtae gggaaggage 850
158 tggtgcagat tgcacgcaag gctggtggcc agacagagat gaattccctg 900
160 aggacetect ttgactecet gaageageaa acagagaatg tgggcagtge 950
162
    acacatccag ctggccctgg ccctgcgtga ggagctgcgg agcctggagg 1000
164
    agttccgaga gagacagaaa gagcagcgga agaagtatga ggccatcatg 1050
166
    gaccgtgtcc agaagagcaa gttgtcgctc tacaagaaga ccatggagtc 1100
168
    caagaaggca tatgaccaga agtgcaggga tgcagatgat gctgagcagg 1150
    ccttcgagcg tgtgagtgcc aatggccacc agaagcaagt agaaaagagc 1200
172 cagaacaaag ccaagcagtg caaggagtca gccacagagg cagaaagagt 1250
174
    gtacaggcaa aatatcgaac aactggagag agcgaggacc gagtgggagc 1300
176
    aggagcaccg gactacctgt gaggccttcc agttgcagga gtttgaccgg 1350
178
    ctcaccatcc tccgcaatgc cctgtgggtg cactgtaacc agctctccat 1400
180
    gcagtgtgtc aaggatgatg agctctatga ggaagtgcgg ctgacccttg 1450
182
    agggctgtga tgtggaaggt gacatcaatg gcttcatcca gtccaagagc 1500
184 actggcagag agccccagc teeggtgeet tateagaact actatgacag 1550
186 ggaggtgacc ccactgattg gcagccctag catccagccc tcctgcggtg 1600
188 tgataaagag gttctctggg ctgctacatg gaagtcccaa gaccacacct 1650
190 tctgctcctg ctgcttccac agagactctg actcccaccc ctgagcggaa 1700
192 tgagttggtc tacgcatcca tcgaagtgca ggcgacccag ggaaacctta 1750
194
    actcatcage ccaggactae egggeactet aegactacae tgeacagaat 1800
196 tetgatgage tggacattte egegggagae ateetggegg teateetgga 1850
198
    aggggaggat ggctggtgga ctgtggagcg gaacggacaa cgtggctttg 1900
200 tecetgggte gtacttggag aagetetgag gaaaggetag eagteteeae 1950
    ataceteege eetgactgtg aggteaggae tgtttettte cateacegee 2000
204 caggeeteae ggggeeagaa eeaageeegg tggtgetggg catgggetgg 2050
206 gtgctggcta ctctcaataa atgtctccca gaaggaaaaa aaaaaaaaa 2100
208 <210> SEQ ID NO: 3
209 <211> LENGTH: 48
210 <212> TYPE: PRT
211 <213> ORGANISM: Mus Musculus
213 <400> SEQUENCE: 3
214
    Leu Tyr Asp Tyr Thr Ala Gln Asn Ser Asp Glu Leu Asp Ile Ser
215
                                          10
217
    Ala Gly Asp Ile Leu Ala Val Ile Leu Glu Gly Glu Asp Gly Trp
218
                     20
                                          25
220
    Trp Thr Val Glu Arg Asn Gly Gln Arg Gly Phe Val Pro Gly Ser
221
223
    Tyr Leu Arg
226 <210> SEQ ID NO: 4
227 <211> LENGTH: 50
228 <212> TYPE: PRT
229 <213> ORGANISM: Homo sapien
231 <400> SEQUENCE: 4
232 Leu Tyr Gln Tyr Ile Gly Gln Asp Val Asp Glu Leu Ser Phe Asn
233
```

## RAW SEQUENCE LISTING DATE: 01/04/2004 PATENT APPLICATION: US/09/068,377D TIME: 13:06:58

Input Set : A:\P1066P2.txt

Output Set: N:\CRF4\01042004\I068377D.raw

```
235 Val Asn Glu Val Ile Glu Ile Leu Ile Glu Asp Ser Ser Gly Trp
236
                      20
                                          25
    Trp Lys Gly Arg Leu His Gly Gln Glu Gly Leu Phe Pro Gly Asn
238
239
241
    Tyr Val Glu Lys Ile
242
244 <210> SEQ ID NO: 5
245 <211> LENGTH: 50
246 <212> TYPE: PRT
247 <213> ORGANISM: Homo sapien
249 <400> SEQUENCE: 5
250 Leu Tyr Asp Tyr Gln Glu Lys Ser Pro Arg Glu Val Thr Met Lys
251
    Lys Gly Asp Ile Leu Thr Leu Leu Asn Ser Thr Asn Lys Asp Trp
253
254
                      20
                                                               30
256
    Trp Lys Val Glu Val Asn Asp Arg Gln Gly Phe Val Pro Ala Ala
257
                      35
259
    Tyr Val Lys Lys Leu
260
262 <210> SEQ ID NO: 6
263 <211> LENGTH: 50
264 <212> TYPE: PRT
265 <213> ORGANISM: Homo sapien
267 <400> SEQUENCE: 6
268 Leu Tyr Asp Tyr Gln Gly Glu Gly Ser Asp Glu Leu Ser Phe Asp
     Pro Asp Asp Ile Ile Thr Asp Ile Glu Met Val Asp Glu Gly Trp
271
272
274
     Trp Arg Gly Gln Cys Arg Gly His Phe Gly Leu Phe Pro Ala Asn
275
277
    Tyr Val Lys Leu Leu
278
280 <210> SEQ ID NO: 7
281 <211> LENGTH: 48
282 <212> TYPE: PRT
283 <213> ORGANISM: Homo sapien
285 <400> SEQUENCE: 7
286 Leu Tyr Asp Tyr Gln Ala Ala Gly Asp Asp Glu Ile Ser Phe Asp
287
                       5
                                          10
289
    Pro Asp Asp Ile Ile Thr Asn Ile Glu Met Ile Asp Asp Gly Trp
290
292
    Trp Arg Gly Val Cys Lys Gly Arg Tyr Gly Leu Phe Pro Ala Asn
293
295 Tyr Val Glu
298 <210> SEQ ID NO: 8
299 <211> LENGTH: 8
300 <212> TYPE: PRT
301 <213> ORGANISM: Artificial Sequence
303 <220> FEATURE:
```

DATE: 01/04/2004

TIME: 13:06:58

#### RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/068,377D

Input Set : A:\P1066P2.txt

Output Set: N:\CRF4\01042004\I068377D.raw

304 <223> OTHER INFORMATION: Amino acid epitope tag 306 <400> SEQUENCE: 8 307 Asp Tyr Lys Asp Asp Asp Asp Lys 308 310 <210> SEQ ID NO: 9 311 <211> LENGTH: 33 312 <212> TYPE: DNA 313 <213> ORGANISM: Artificial Sequence 315 <220> FEATURE: 316 <223> OTHER INFORMATION: Synthetic oligonucleotide probe 318 <400> SEQUENCE: 9 319 cgcggatcca ccatgatggc ccagctgcag ttc 33 321 <210> SEQ ID NO: 10 322 <211> LENGTH: 45 323 <212> TYPE: DNA 324 <213> ORGANISM: Artificial Sequence 326 <220> FEATURE: 327 <223> OTHER INFORMATION: Synthetic oligonucleotide probe 329 <400> SEQUENCE: 10 330 gtacgcgtcg actcacttgt catcgtcgtc cttgtagtcg agctt 45 332 <210> SEQ ID NO: 11 333 <211> LENGTH: 18 334 <212> TYPE: DNA 335 <213> ORGANISM: Artificial Sequence 337 <220> FEATURE: 338 <223> OTHER INFORMATION: Synthetic oligonucleotide probe 340 <400> SEQUENCE: 11 341 tgcctttctc tccacagg 18 343 <210> SEQ ID NO: 12 344 <211> LENGTH: 36 345 <212> TYPE: DNA 346 <213> ORGANISM: Artificial Sequence 348 <220> FEATURE: 349 <223> OTHER INFORMATION: Synthetic oligonucleotide probe 351 <400> SEQUENCE: 12 352 ctccttgagg ttctactagt gggggctggt gtcctg 36 354 <210> SEQ ID NO: 13 355 <211> LENGTH: 39 356 <212> TYPE: DNA 357 <213> ORGANISM: Artificial Sequence 359 <220> FEATURE: 360 <223> OTHER INFORMATION: Synthetic oligonucleotide probe 362 <400> SEQUENCE: 13 363 gcggccgcac tagtatccag tctgtgctcc atctgttac 39 365 <210> SEQ ID NO: 14 366 <211> LENGTH: 17 367 <212> TYPE: DNA

370 <220> FEATURE:

368 <213> ORGANISM: Artificial Sequence

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/09/068,377D
DATE: 01/04/2004
TIME: 13:06:59

Input Set : A:\P1066P2.txt

(see p.7)

Output Set: N:\CRF4\01042004\I068377D.raw

### Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:27; Xaa Pos. 2,3

|       | SEQ ID NO 27<br>LENGTH: 4 sel tem // on Evor Surmary Sheet  |
|-------|---|
|       |   |
|       | TYPE: PRT   |
|       | ORGANISM: Artificial Sequence   |
|       | FEATURE:  |
| <223> | OTHER INFORMATION: Any amino acid this does not the   |
| <400> | SEQUENCE: 27  |
|       | FEATURE: OTHER INFORMATION: Any amino acid this does not explain' SEQUENCE: 27 Pro (Xaa Xaa) Pro  1 |
|       | $1 \longrightarrow 1$   |
|       |   |
|       | I sel >   |
|       | $\mathcal{L}$   |

these need explaining (p.6)

#### VERIFICATION SUMMARY

DATE: 01/04/2004 PATENT APPLICATION: US/09/068,377D TIME: 13:06:59

Input Set : A:\P1066P2.txt

Output Set: N:\CRF4\01042004\I068377D.raw

L:711 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:27 L:711 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:27

L:711 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:0